## **APPENDIX E Field and Data Entry Worksheets**

Examples of worksheets for Chain of Custody sheets (2 pages) and recording analytical results used by the City of Los Angeles' Environmental Monitoring Division are provided herein. They include shoreline beach observations, Chromogenic Substrate data entry, and Membrane Filtration data entry. Once completed, data are then entered into the LIMS database.

Date:

Chain of Custo

Sample Chain of Custo

EMD LIMS #:			

Bureau of Sanitation	orks <b>Samp</b>	ie Chain of C	usiouy	LINS #		
Environmental Monito	ring Division		EMD Sam Project N			
Sampling Information: Sampling Agency: Agency Sample ID#:			Sampling Pi	rogram:		
Phone Number: Fax Number: Contact Person: email address:			Purpose of	program:		
Sampler's Name: Sampler's Title			Report Time	e Frame:		
Sampler's Signature:			_			
Witness: Name Title			Sample Dat	e:	-	
Name Title			Sampling Ti	ime:	-	
Sample Location:			Sampling A	ddress:		
Requested Analysis:	Metals: Organics: Conventional Chemistry	r: 🗆	Micro Toxici Air Te	sting:	ge for specifics a	nalvses
Sample Notification:			Toxicity:	COO Suon or po		
PC:	Date: _					
	Date: _					
Micro:	Date: _					
Current Holder Name	Signature	7	Γitle	Received Date	Received Time	Released Date
		-			_	-

## Analysis to be performed on the Sample(s):

EMD	Analysis to be p	serrormed on the dampie(e	·)·
LIMS #: Locator: -1	Collection Time:	Locator: -6	Collection Time:
-2		-7	
-3 -4		-8 -9	
-5		-10	
Sample Information: Grab	site:	Other:  Number:  Number:	TemperaturepH
Plastic Preservative	Size: Color: Number of samples:	Number:	Residual Cl2
rieservative	Number of samples.		
AI	Cu Pb Fe Sb Hg Se K Sn Mg Sr Mn TI Mo V Na Zn Ni	Other:  Total Dissolved	
BNA	Pesticides/PCB Dioxin - screen Other:	Clopyralid Dioxin - low resolution Dioxin - high resolution Tributyltin	Air VOC Fixed Gases GC Sulfur Siloxanes
Conventional Chemical:  Alkalinity BOD Boron Chloride COD Conductivity Cyanide (Free) Cyanide (Total) Flashpoint Fluoride Grain Size Hardness Hexavalent Chromium H <sub>2</sub> S	MBAS Nitrogen: Ammonia Nitrogen Nitrate-N Nitrite-N Organic-N Kjeldahl Nitrogen Oil & Grease pH Phenols Phosphate, Total Phosphate, Dissolved Radioactivity Salinity	Solids: Total Solids Total Dissolve Total Suspenc Settleable Soli Volatile Suspe Volatile Total S Sulfates Sulfides, Total Sulfides, Dissolv Thiosulfate TOC Turbidity Other:	ded Solids ids ended Solids Solids
Biological:			
Total Coliform Fecal Coliform	Salmonella Acute Toxicity (Fresh wa	Other: _	
E. coli	Chronic Toxicity (Sea w	ater)	
Enterococcus	Chronic Toxicity (Fresh	water)	

Remarks:

Dat									Re	ead by:	Time:	
	onmental Monito	ring Divisi	on			Aicrobiolog			V	alidated:		
TOT	AL 				SHORELI	NE QUANT	TTRAY CO	DUNTS				
	Station	S01	S02	S03	S04	S05	S06	S07	S08	S09	Blank	Dup
	10 ml											
	Large cells											
	Small cells											
	Blank 100 mL										Blank	
	Large Cells											
	Small Cells											
E. col												
	Station	S01	S02	S03	S04	S05	S06	S07	S08	S09	Blank	Dup
	10 ml											
	Large cells											
	Small cells											
	Blank 100 mL										Blank	
	Large Cells											
	Small Cells											

Date	e:	SHE		Е	MIC	TAL MONITO ROBIOLOGY E BACTERIAI	UNIT			Entere Validated by:	ed by: 1:	_2
EN	TEROCOC	CUS								Read	by: Ti	me
	VOL. (mL)	01	02	03	04	05	06	07	08	09	DUP	
	10											
	50		,									
	100											
EN	ΓERO/100	mL										
	VOL. (mL)	10	11,	12	13	14	15	16	17	18	DUP	

ENTERO/100 mL

10 50 100

DATE (Day/Month/Year):														
STATION ID			SAN	IPLER NA		VITIAL:					HTP	LOGIN		Ш
STATION ID				POINT ZE	RO SITES							OPEN	BEACHE	S
										STATION ID				
SAMPLE TIME										SAMPLE TIME				1
Beach Refuse										Beach Refuse				1
Ocean Debris										Ocean Debris				
Seaweed										Seaweed			9	
Tar										Tar				
Rubber / Plastic Goods										Rubber / Plastic Goods				
Plankton Color										Plankton Color				
Dead Marine										Dead Marine				
Sewage Grease										Sewage Grease				
Sewage Susp. Solids										Sewage Susp. Solids				
Odor										Odor				
Oil										Oil				
Foam										Foam				
Bathers										Bathers				4
Animals / Birds										Animals / Birds				
Storm Drain Flow										Storm Drain Flow				
Storm Drain Position										Storm Drain Position				П
Tide Height*										Tide Height*				П
Reached Surf										Reached Surf				
Reverse Flow										Reverse Flow				4
Conductivity (Reverse Flow only)										Conductivity (Reverse Flow only)				
CODE	0	1	2	3	4	5	6	7	NOTE:	DO NOT PUT YOURSELF AT RISK IN O	DDED TO	COMPLE	TE THIS I	-05
Reverse Flow	NO	YES			4	-			Annah make	IENTS:	NDER 10	OUNTLE	Linis	JR
Reached Surf	NO	YES												
Storm Drain Position	Buried in Sand	Submerged( Not Sampled)												
			Low Flow (garden	Medium flow (between 2	Heavy flow									
	Dry	Ponded	Hose)	and 4)	(Fire Hose)	1								
Plankton Color		Brown	Green	Red	Yellow	Blue-Green	ž.							
Dead Marine		Fish	Jellyfish	Seal	Dolphin	Bird	Whale	Crab						
Odor Foam		Sewage Some	Oil Heavy	Chemical	Marine									
Animals / Birds or Bathers (50 yards each direction)		1 to 5	5 to 10	10 to 20	20 to 50	50 to 100	> 100							

	WE	DNESDA	AY (acce	elerated)				FRIDA	Y (acc	elerate	ed)			
DATE:						DATE:								
SAMPLER NAME AND	INITIAL:					SAMPLER NAME AND	INITIA	\L:						
HTP LOGIN #:						HTP LOGIN #:								
STATION ID						STATION ID								
SAMPLE TIME						SAMPLE TIME								
Beach Refuse						Beach Refuse								
Ocean Debris						Ocean Debris								
Seaweed						Seaweed								
Tar						Tar								
Rubber / Plastic						Rubber / Plastic								
Plankton Color						Plankton Color								
Dead Marine						Dead Marine								
Sewage Grease						Sewage Grease								
Sewage Susp.						Sewage Susp.								
Solids						Solids								
Odor						Odor								
Oil						Oil								
Foam						Foam								
Bathers						Bathers								
Animals / Birds						Animals / Birds								
Storm Drain Flow Storm Drain Position						Storm Drain Flow Storm Drain Position								
Tide Height*						Tide Height*								
Reached Surf						Reached Surf								
Reverse Flow						Reverse Flow								
Conductivity						Conductivity								
(Reverse Flow						(Reverse Flow								
only)						only)								
			NORTH B			CODE	1	2	3	4	5	6	7	8
DATE	MON	V	VED	FRI		WEATHER SEA	Fair Calm	Cloudy Chop	Fog	Rain	P-Cldy	Hazy	Overcast	
SAMPLER						WIND DIRECTION	N	NE	Waves	SE	S	SW	W	NW
Weather						THE DIRECTION	14	IAL	_	OL.		544	**	1444
Wind Direction														
Sea Conditions														
Air Temp														
Surf Temp														
Wave Height														